

FIG. 1

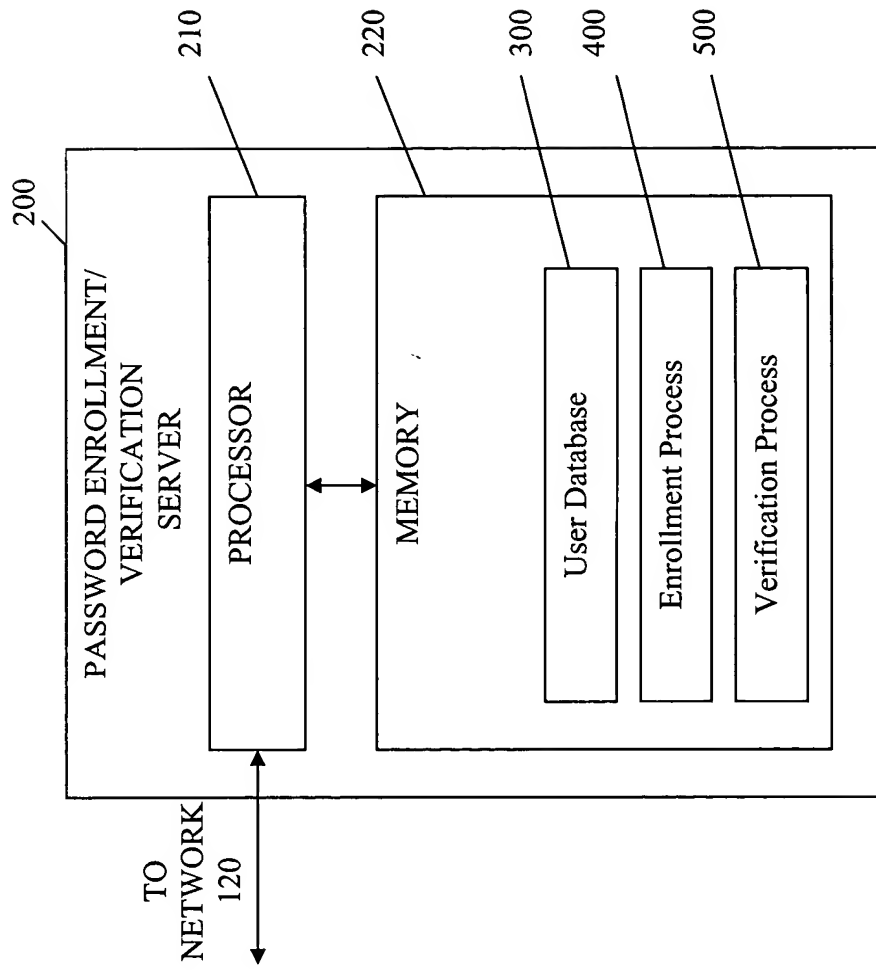


FIG. 2

USER DATABASE -- 300

	USER NAME 330	PASSWORD (ANSWER) 340	REINFORCEMENT (HINT) 350
305	John Smith	732-555-1212	Mandy's Phone Number
310	...		
315	Jon Bentley	People: Father, Mother, Sister, Brother Car: Blue 1965 Mustang Trip: From Home to Fresno via Highway	Sandy Koufax's Perfect Game
320	Jill Doe	12/12/68	Fido's Owner's Birthday

FIG. 3

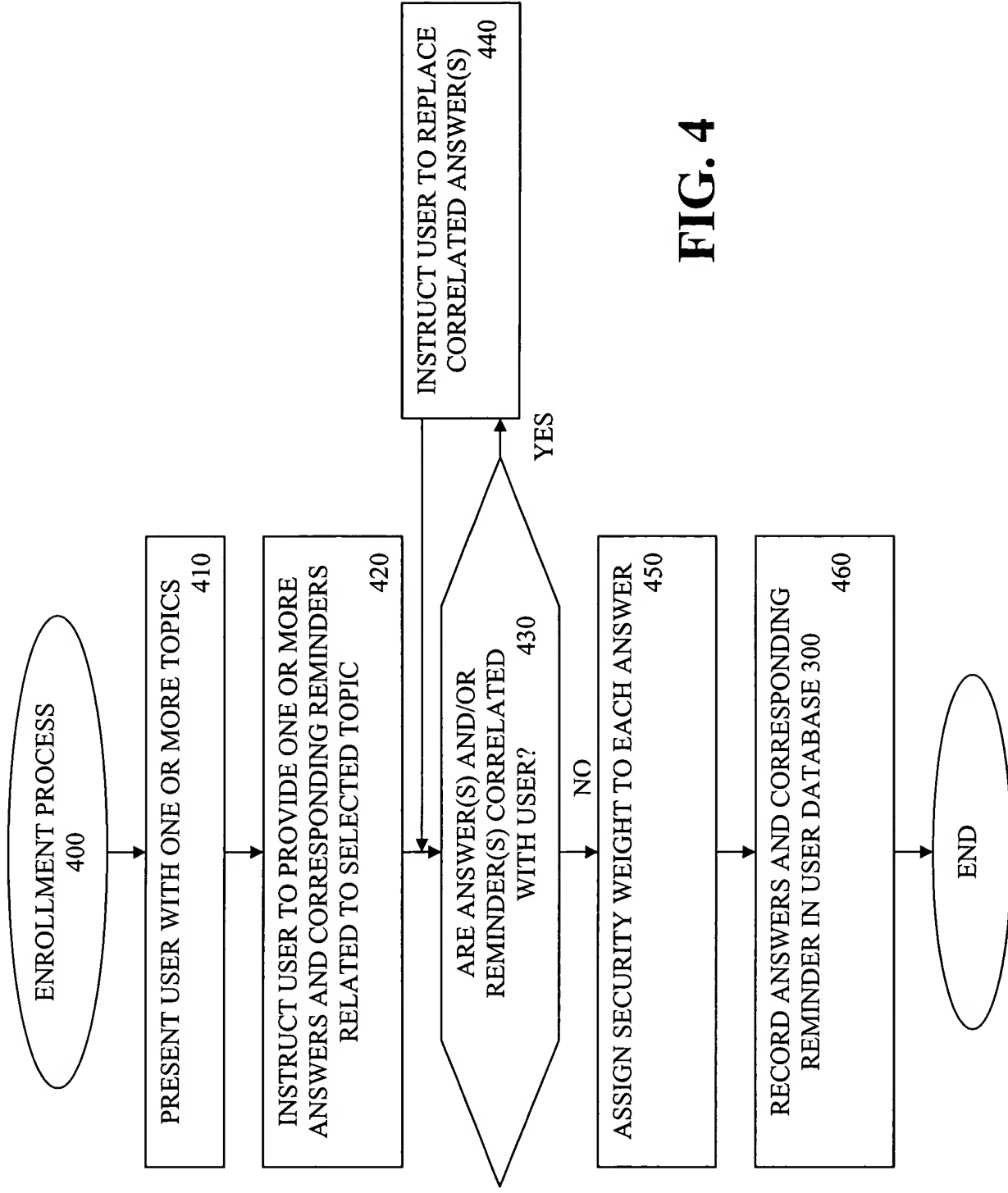


FIG. 4

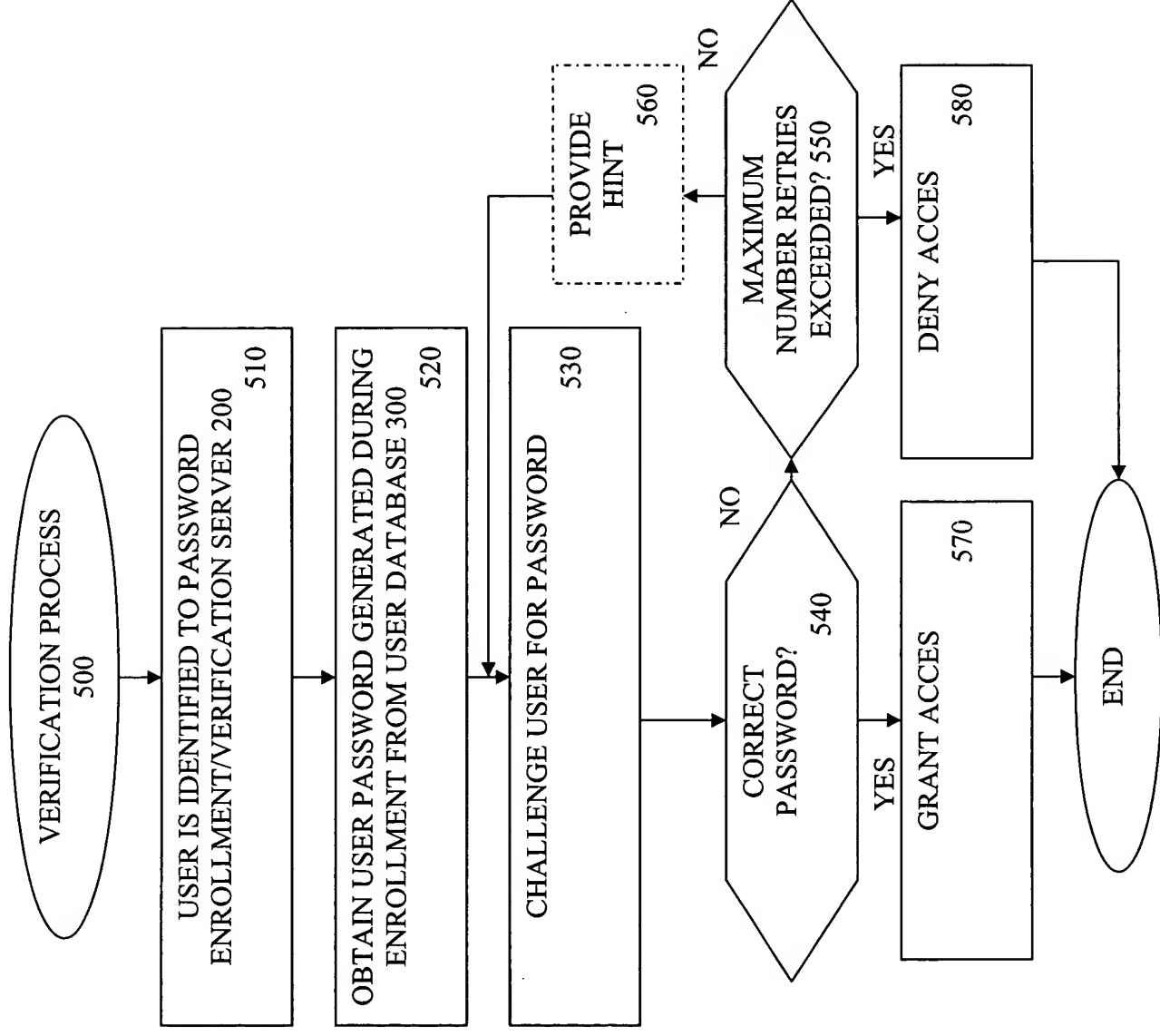


FIG. 5

600

Authentication Registration -- UI Module

Welcome. This program will help you choose a "secret number" to identify yourself. Please choose one of the methods.

Personal History

Use this if you remember phone numbers, street addresses, and the like.

Key Events

Use this if you have vivid memory of past events, such as the First Moon Walk or the Tragedy of September 11, 2001.

Personal Preferences

Take a brief quiz about your likes and dislikes, then log in later by answering these questions.

Make Your Own Number

Make up your own secret number.

Random Number

The system will generate a secret number, and then help you memorize it.

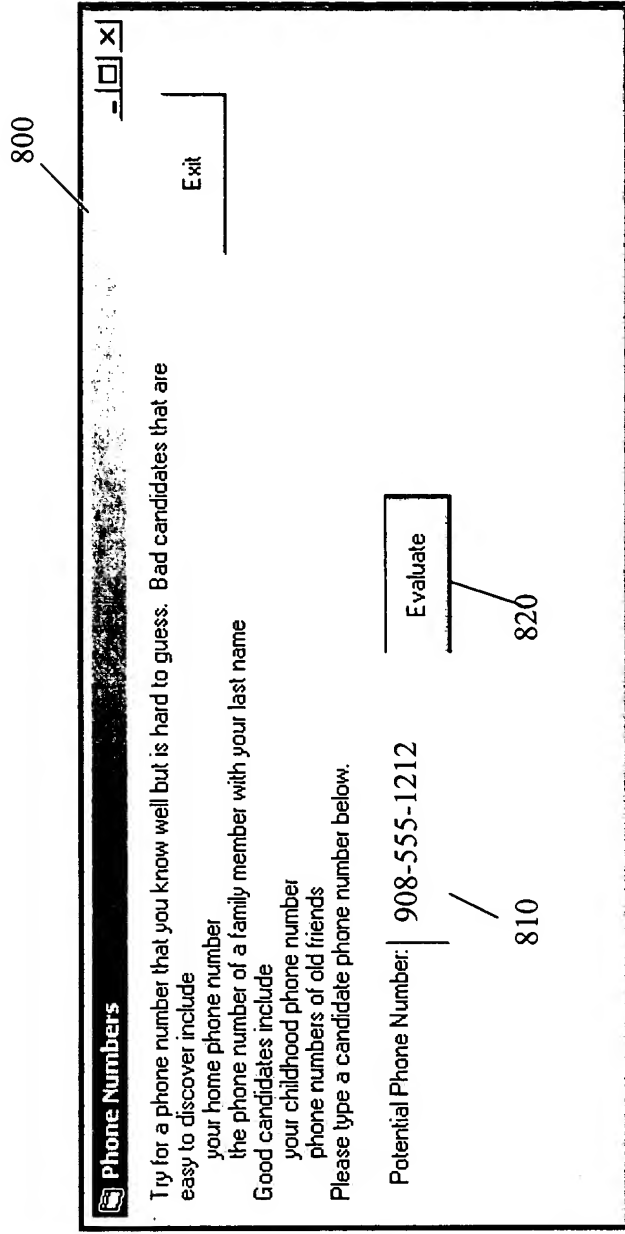
Exit

610

FIG. 6



FIG. 8



Phone Number Text - [] [X]

Try to find a reminder that is easy for you to recognize yet hard for others to guess. Bad reminders that could help an attacker include

Fred Jones in Boca Raton
my brother in Aspen

Good reminders mean a lot to you, but little to other people:
Fluffy and Rover's house (pets' names)
Susie and Jimmy's old house (children's names)

If you can think of a good reminder, type it in below and press Evaluate.
If you need help, press for assistance.

Phone Number: 732-555-1212

Potential Reminder: Mandy's Phone Number

Tests passed. 910

If you are comfortable with this reminder, proceed to the next step.
If you are not comfortable, try another reminder.

Evaluate

Finish the Process

Exit

FIG. 9

Registration Completion

Secret Number: 732-555-1212

Reminder: Mandy's phone number

1010

1020

Many people find it easier to remember their secrets if they receive periodic reminders. Please indicate below what, if any, reminders you wish to receive.

E-Mail Reminders

E-Mail Address: user@mail.adr

Frequency of Reminders

☐ Weekly
 ☒ Monthly
 ☐ None

☐ Check here to receive the secret number along with the reminder.

Telephone Reminders

Telephone Number:

Frequency of Reminders

☐ Weekly
 ☐ Monthly
 ☒ None

☐ Telephone reminders do not give your secret numbers.

Exit

Done

FIG. 10

1100

Authentication Registration -- UI MOCKUP

Exit

Welcome. This program will help you to select and describe a scene from your distant past that is memorable and private yet not confidential. Please choose a category.

Public Event

Use this if you have vivid memories of your surroundings during a public event, such as the First Moon Walk or the Tragedy of September 11, 2001.

Accomplishment

Use this if you have vivid memories of a past accomplishment, such as learning to swim, learning to drive a car, your first time living away from home, or some other moment when you were "most truly yourself".

Celebration

Use this if you recall a pleasant celebration, such as a birthday party, a graduation party, a religious celebration (such as a First Communion or Bar Mitzvah), or a family holiday.

Childhood Friends

Use this if you recall a scene with your childhood friends.

School Days

Use this if you have vivid memories centering around your teachers and classes when you were in school.

1110

FIG. 11

1200

Key Event Selection

Some people have very vivid memories about where they were during important events. Click on any buttons for which you have strong personal memories.

1210-1 President Kennedy's Assassination	1210-4 The First Moon Walk
1210-2 President Nixon's Resignation	1210-5 The 1980 USA Hockey Gold Medal
1210-3 The Challenger Explosion	1210-6 The Tragedy of September 11, 2001

If you have vivid memories of other events, click the button below.

Record Another Event 1210-N

Exit

FIG. 12

1300

Key Event Details - | □ | X

Please answer any questions that you remember vividly.


When You First Heard the News

1310 **Where**
Where were you when you first heard about The Tragedy of September 11, 2001?
☐ Home ☐ Work ☐ School ☐ Car ☐ Public Place ☐ Other

1320 **Who**
With whom were you when you first heard about The Tragedy of September 11, 2001?
☐ Alone ☐ Family ☐ Friends ☐ Work Associates ☐ Strangers ☐ Other

1330 **How**
How did you first hear about The Tragedy of September 11, 2001?
☐ TV ☐ Radio ☐ Web ☐ Newspaper ☐ Phone Call ☐ Word of Mouth

FIG. 13


Details of Public Event

Please fill in (or correct) as many details as you vividly recall.

1410

Event Name: Sandy Koufax's Perfect Game

1420

People Involved

Family members

My father

My mother

My sister

My brother

1430

About The Car

Color

Blue

Year

1965

Manufacturer

Ford

Model

Mustang

Style

Don't Recall

1440

From: Home

To: Fresno

Type of Road: Highway

Exit

Proceed to the Next Step

FIG. 14

1500

Authentication Screen

Attempting authentication for JBentley. Please fill in as many empty fields as you can, then hit Submit.

Friends in the Bat Patrol from Boy Scouts.

Hint

Kirk's younger brother

Family owned the carnival

Pastor's son

Brother wounded in Vietnam

First Name

Last Name

xxxxxx

xxxxxx

xxxxxx

xxxxxx

xxxxxx

xxxxxx

xxxxxx

xxxxxx

Submit

1510

1530

1520

FIG. 15